

Subject Code: B132101/R13

SET-1

II B. Pharmacy I Semester Supplementary Examinations, May - 2019
PHARMACEUTICAL UNIT OPERATIONS-I

Time: 3 hours

Max. Marks: 70

Question paper consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

PART-A

1. (a) Differentiate between Orificemeter & Venturimeter.
- (b) Classify different material handling systems with examples.
- (c) Define Centrifugation and classify Centrifuges.
- (d) Write a note on Swenson Walker crystallizer.
- (e) Define humidity and dew point temperature.
- (f) Define Corrosion. Write the applications of material used for plant construction w.r.t stainless steel.

[4+3+3+4+4+4]

PART-B

2. What are the different types of valves used in transportation of fluids? Describe in detail about any two. [16]
3. (a) Discuss the construction and applications of Belt conveyor & Screw conveyor.
- (b) Write a note on types of fans. [10+6]
4. (a) Describe the construction and working of Plate & frame filter press.
- (b) Describe the construction and working of any one Centrifugal filters. [8+8]
5. (a) Explain the construction and working of Agitated Batch crystallizer.
- (b) Describe various characteristics of crystals and factors affecting it. [6+10]
6. (a) Mention the applications of Refrigeration.
- (b) Explain the methods for measurement of Humidity. [4+12]
7. (a) Write about Fire Hazards and their prevention.
- (b) Explain the properties and applications of materials used for plant construction w.r.t glass. [8+8]
